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Information	Disclosure Citation
in an	Application

Patent No.	Applicant(s)	
09/870,944	м	ichael I. Catherwood
Docket Number	Group Art Unit	Filing Date
068354.1443	2124	June 1, 2001

## **U.S. PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
9	A.	3771146	11/73	Cottton et al.	710	260	
_	B.	3781810	12/25/73	Downing	713	228	
T	C.	3886524	5/75	Appelt, Daren R.	710	110	
T	D.	4025771	5/77	Lynch et al.	708	521	
T	E.	4074353	2/78	Woods et al.	<del>-710</del>	264	
T	F.	4090250	5/78	Carlson et al.	712	234	
T	G.	4379338	4/83	Nishitani et al.	708	552	
T	H.	4398244	8/9/83	Chu et al.	712	244	
	1.	4451885	5/84	Gerson et al.	708	200	
	J.	4472788	9/18/84	Yamazaki	798	209	
	K.	4481576	11/6/84	Bicknell	711	217	
T	L.	4488252	12/11/84	Vassar	708	505	
CD	M.	4511990	4/16/85	Hagiwara et al.	708	501	

## FOREIGN PATENT DOCUMENTS

							TRANSL	ATION
1		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
(7)	N.	0 855 643 A1	29-07-98	EP				
00	0.	0 554 917 A2	11-08-93	ЕР				
	P.							

## NON-PATENT DOCUMENTS

	I		
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
	Q.	Moon B I et al.: "A 32-bit RISC Microprocessor with DSP Functionality: Rapid Prototyping" IEICE	
1		Transactions on Fundamentals of Electronics, Communications and Computer Sciences, Institute of	<del></del>
-		Electronics Information and Comm. Eng. Tokyo, JP, vol. E84-A no. 5, pages 1339-1347, XP001060025	ļ
l		ISSN: 0916-8508	May 2001
	R.	Turley J: "Balancing Conflicting Requirements When Mixing RISC, DSPs" Computer Design, Pennwell	
		Publ. Littleton, Massachusetts, IS, vol. 37, no. 10, pages 46, 48, 50-53, XP000860706 ISSN:0010-4566	October 1998
	S.	Levy M: "Microprocessor and DSP Technologies Unite for Embedded Applications" EDN Electrical Design	
		News, Cahners Publishing Co., Newtown Massachusetts, US, no. Europe, pages 73-74, 76, 78-80,	<del></del>
_		XP000779113 ISSN: 0012-7515	2 March 1998
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Information Disclosure Citation in an Application

Patent No.	Applicant(s)		
09/870,446	1	Michael I. Catherwood	
Docket Number	Group Art Unit	Filing Date	-
068354.1443	2124	June 1, 2001	

#### **U.S. PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
CD	A.	4556938	12/3/85	Parker et al.	. <del>712</del>	24.1	
	B.	4626988	12/2/86	George	712	241	
	C.	4730248	3/8/88	Watanabe et al.	712	228	
	D.	4779191	10/88	Greenblatt, Richard	711	2	
	E.	4782457	11/1/88	Cline	708	205	
	F.	4807172	2/21/89	Nukiyama	708	209	
	G.	4829460	5/9/89	Ito	708	209	
	H.	4829420	5/9/89	Stahle	711	200	
	I.	4841468	6/89	Miller et al.	708	625	
	J.	4839846	6/13/89	Hirose et al.	708	497	
T	K.	4872128	10/3/89	Shimizu	708	209	
1	L.	4882701	11/21/89	Ishii	712	241	
CD	M.	4926371	5/90	Vassilliadis et al.	708	628	

## FOREIGN PATENT DOCUMENTS

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#### **NON-PATENT DOCUMENTS**

DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
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EXAMINER DATE CONSIDERED 10/5/04

Page 3 of 11 Patent No. Applicant(s) 09/870,446 Michael I. Catherwood **Information Disclosure Citation** in an Application **Docket Number** Group Art Unit Filing Date 068354.1443 2124 June 1, 2001 **U.S. PATENT DOCUMENTS SUBCLASS** DOCUMENT NO. DATE NAME **CLASS** FILING DATE A. ഗ 708 4941120 7/10/90 Brown et al. 497 B. 4943940 7/24/90 New 708 507 C. 9/25/90 Deerfield et al. 711 217 4959776 D. 4977533 12/11/90 Miyabayashi et al. 708 404 E. 4984213 1/8/91 Abdoo et al 365 230/03 F. 5007020 4/9/91 Inskeep 711 200 G. 4/30/91 711 217 5012441 Retter H. 7/16/91 Pathak et al. 711 217 5032986 I. 8/6/91 Akagiri et al. 708 5038310 205 J. Ohde et al. 712 241 5056004 10/8/91 K. 708 5099445 3/24/92 Studor et al. 209 L. 5101484 3/31/92 Kohn 712 241-M. 00 5117498 5/26/92 Miller, et al. 712 241 FOREIGN PATENT DOCUMENTS

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#### **NON-PATENT DOCUMENTS**

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# Information Disclosure Citation in an Application

Patent No.	Applicant(s)	
09/870,446	Michael I. Catherwood	
Docket Number	Group Art Unit	Filing Date
068354.1443	2124	June 1, 2001

### **U.S. PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
න	Å.	5121431	6/92	Wiener, Michael J.	713	174	
١	B.	5122981	6/16/92	Taniguchi	<del>-708</del>	497	
	C.	5155823	10/13/92	Tsue	- <del>711</del>	217	
Τ	D.	5197140	3/23/93	Balmer	711	222	
1	E.	5197023	3/23/93	Nakayama	708	505	
T	F.	5206940	4/27/93	Murakami et al.	711	218-	
T	G.	5212622	5/18/93	Cocanougher et al.	708	508	
	H.	4408274	10/93	Wheatley et al	711-	163	
	I.	5276634	1/4/94	Suzuki et al.	708	497	
Γ	J.	5282153	1/25/94	Bartkowiak et al.	708	233	
	K.	5327566	7/5/94	Forsyth	710	260	
1	L.	5327543	7/5/94	Miura et al.	712	224	
W	M.	5379240	1/3/95	Byrne	708	209	

## FOREIGN PATENT DOCUMENTS

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# Information Disclosure Citation in an Application

Patent No.	Applicant(s)		
09/870,446	Michael I. Catherwo	od	
Docket Number	Group Art Unit	Filing Date	
068354.1443	2124	July 19, 2001	

### U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DAT
(S)	A.	5422805	6/95	McIntyre et al.	708	625	
ĺ	B.	5448703	9/5/95	Amini et al.	710	110	
	C.	5448706	9/5/95	Fleming et al.	711	217-	
	D.	5463749	10/31/95	Wertheizer et al.	711	110-	
	E.	5469377	11/21/95	Amano	708	497	
	F.	5471600	11/28/95	Nakamoto	711	5	
	G.	5497340	3/5/96	Uramoto et al.	<del>-708</del>	552	
	H.	5499380	3/12/96	lwata et al.	711	212	
	Ī.	5517436	5/96	Andreas et al.	708	524	
	J.	5548544	8/20/96	Matheny et al.	708	497	
	K.	5568380	10/96	Broadnax et al.	<del>-700</del>	79	
	L.	5568412	10/22/96	Han et al.	708	497	
D	M.	5596760	1/21/97	Ueda	712	244	<del>-</del>

### FOREIGN PATENT DOCUMENTS

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# Information Disclosure Citation in an Application

Patent No.	Applicant(s)	
09/870,446	Michael I. Catherwo	ood
Docket Number	Group Art Unit	Filing Date
068354.1443	2124	June 1, 2001

## **U.S. PATENT DOCUMENTS**

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
D A.	5600813	2/4/97	Nakagawa et al.	711	217	
B.	5619711	4/8/97	Anderson	712	221	
C.	5642516	6/97	Hedayat et al.	710	260-	
D.	5638524	6/10/97	Kiuchi et al.			
E.	5651121	7/22/97	Davies			
F.	5657484	8/12/97	Scarrá			
G.	5682339	10/28/97	Tam			
H.	5689693	11/18/97	White	712	224	
I.	5694350	12/2/97	Wolrich et al.	708	497	
J.	5696711	12/9/97	Makineni	708	497	
K.	5706460	1/6/98	Craig et al.	_712	204	
L.	5715470	2/3/98	Asano et al.	.375	341	
О M.	5740095	4/98	Parant, Phillippe	708	628	+

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NO.	DOCUMENT NO. DATE COUNTRY		CLASS	SUBCLASS	TRANSLATION	
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## NON-PATENT DOCUMENTS

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Patent No. Applicant(s)
Information Disclosure Citation 09/870,446 Michael I. Catherwood

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Docket Number	Group Art Unit	Filing Date
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## **U.S. PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
$\overline{\mathcal{D}}$	Α.	5737570	4/7/98	Koch	711	149	
	B.	5740419	4/14/98	Potter	712	241	
Γ	C.	5748516	5/5/98	Goddard et al.	708	497	
	D.	5765216	6/98	Weng et al.	711	214	
	E.	5764555	6/9/98	McPherson et al.	708	497	
	F.	5774711	6/30/98	Henry et al.	712	244	
Π	G.	5778416	7/7/98	Harrison et al.	711	5	
	H.	5790443	8/4/98	Shen et al.	708	491	
Г	I.	5808926	9/15/98	Gorshtein et al.	708	497	
	J.	5812439	9/22/98	Hansen	708	497	
Г	K.	5826096	10/20/98	Baxter	712	24	
Γ	L.	5825730	10/20/98	Nishida et al.	369	443	
D	M.	5828875	10/27/98	Halvarsson et al.	712	241	

## FOREIGN PATENT DOCUMENTS

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### NON-PATENT DOCUMENTS

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Page Patent No. | Applicant(s) | Patent No. | Michael I. Catherwood | Information Disclosure Citation | Docket Number | Group Art Unit | Filing Date

## U.S. PATENT DOCUMENTS

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June 1, 2001

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
(D)	A.	5862065	1/19/99	Muthusamy	7 <del>08</del>	521	
1	B.	5880984	3/9/99	Burchfiel et al.	708	501	
Т	C.	5892697	4/6/99	Brakefield	708	496	
T	D.	5892699	4/6/99	Duncan et al.	708	628	
T	E.	5894428	4/13/99	Harada	<del>-708</del>	306	
	F.	5909385	6/1/99	Nishiyama et al.	708	630	
	G.	5917741	6/29/99	Ng.	708	497	
Γ	H.	5930503	7/27/99	Drees	713	<u> </u>	
	I.	5930159	7/27/99	Wong	708	550	
	J.	5944816	8/99	Dutton et al.	712	215	
	K.	5936870	8/99	Im, Jin Hyeock	708	552	
	L.	5938759	8/17/99	Kamijo	-712	209	-
$\dot{v}$	M.	5943249	8/24/99	Handlogten	708	496	

#### FOREIGN PATENT DOCUMENTS

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	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
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## NON-PATENT DOCUMENTS

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# Information Disclosure Citation in an Application

Ti	Patent No.	Applicant(s)	
(	09/870,446	Michael I. Catherwo	ood
h	Docket Number	Group Art Unit	Filing Date
	068354.1443	2124	June 1, 2001

## **U.S. PATENT DOCUMENTS**

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
CD	A.	5941940	8/24/99	Prasad et al.	<del>-708</del>	523	
1	B.	5951679	9/14/99	Anderson, et al.	712	241	
	C.	5951627	9/14/99	Kiamilev et al.	<del>-708</del>	404	
	D.	5991787	11/23/99	Abel et al.	708	400	
	E.	5996067	11/30/99	White	712	224	
	F.	6009454	12/28/99	Dummermuth	718	108	
	G.	6014723	1/11/00	Tremblay et al.	711		
	H.	6026489	2/15/00	Wachi et al.	712	241	
	I.	6044392	3/28/00	Anderson et al.	708	-551	
	J.	6044434	3/28/00	Oliver	711	110-	
	K.	6061783	5/00	Harriman, Ward	712	224	
	L.	6061711	5/00	Song et al.	718	108	
D	M.	6058409	5/2/00	Kozaki et al.	-708	409	

### FOREIGN PATENT DOCUMENTS

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#### **NON-PATENT DOCUMENTS**

	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
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Michael I. Catherwood

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Docket Number

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June 1, 2003

# U.S. PATENT DOCUMENTS

Ø		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
J)	A.	6058410	5/2/00	Sharangpani	708	- <del>551</del>	
Γ	B.	6058464	5/2/00	Taylor	711	2177	
	C.	6061780	5/9/00	Shippey, et al.	712	204	
Π	D.	6076154	6/13/00	Van Eijndhoven et al	712	24	
	E.	6101599	8/00	Wright et al.	712	228	
	F.	6101521	8/8/00	Kosiec	708	550	
Γ	G.	6115732	9/5/00	Oberman et al.	708	625	
	H.	6128728	10/3/00	Dowling	712	228	
Τ	I.	6134574	10/17/00	Oberman et al.	708	551	
	J.	6144980	11/00	Oberman, Stuart F.	708	627	
	K.	6145049	11/7/00	Wong	710	267	
	L.	6205467	3/01	Lambrecht et al.	718	108_	
S	M.	6243804	6/01	Cheng, Chuck Cheuk-wing	712	228	

## FOREIGN PATENT DOCUMENTS

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	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	YES	NO
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## NON-PATENT DOCUMENTS

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Page 11 of 11 Applicant(s) Patent No. 09/870,446 Michael I. Catherwood Information Disclosure Citation in an Application Docket Number Group Art Unit Filing Date 2124 June 1, 2001 068354.1443 U.S. PATENT DOCUMENTS DOCUMENT NO. **CLASS SUBCLASS** FILING DATE DATE NAME A. 9/01 MacDonald, James R. 710 6295574 261 В. 6377619 4/02 Denk et al. 708 322 C. 6412081 6/02 Koscal et al. 714 34 D. Dowling, Eric M. 712 6487654 11/02 244 E. 6633970 10/03 Clift et al. 712 217 F. 6523108 2/03 James et al. 712 224\_\_ G.  $\Omega$ 6564238 5/03 Kim et al. 708 513 Ī. J. K. L. М. N. FOREIGN PATENT DOCUMENTS TRANSLATION DOCUMENT NO. DATE **COUNTRY CLASS** SUBCLASS YES NO O. P. Q. **NON-PATENT DOCUMENTS** DOCUMENT (Including Author, Title, Source, and Pertinent Pages) DATE R. S.

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